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TI Supported metallocenes for olefin polymerization.
AU Matisons, Janis G.; Britcher, Leanne G.; Rosenholm, Jarl B.
CS Ian Wark Research Institute, University of South Australia, Mawson Lakes,
5095, Australia
SO Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26 (1999), INOR-526 Publisher: American Chemical Society, Washington, D. C.
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AB In this work, silica supported metallocene were prepd. using two different methods: 1) Silica was treated with a silane coupling agent contg. amino or thiol groups, followed by a metallocene complex and 2) Silica was treated with a vinyl silane followed by a reaction with a hydrogen contg. metallocene (hydrozirconation). Diffuse Reflectance IR Spectroscopy (DRIFT) and Xray Photoelectron Spectroscopy (XPS), were used to characterize the catalysts. The activity of the catalysts was tested by polymg. ethylene in the presence of methylaluminoxane (MAO). A homogeneous system, consisting of Zirconocene Dichloride/MAO was used for comparison. Polymn. of ethylene was successful with the catalyst prepd. by the second method, outperforming the homogeneous catalyst system.